

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/41605

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B21D 5/08, 19/02, 31/06

US CL : 29/243.57, 243.58, 275; 72/386, 456, 457, 479, 480

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 29/243.57, 243.58, 275; 72/386, 456, 457, 479, 480

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3,188,729 A (POGUE, JR., ET AL) 15 JUNE 1965 (15.06.1965), SEE ENTIRE DOCUMENT AND FIGURES.	1-3
A	US 5,095,735 A (SCHNEIDER, JR.) 17 MARCH 1992 (17.03.1992), SEE ENTIRE DOCUMENT.	1-14
A	US 4,060,046 A (ECKOLD ET AL.) 29 NOVEMBER 1977 (29.11.1977), SEE ENTIRE DOCUMENT.	1-14
A	US 3,602,032 A (SKINTZIS) 31 AUGUST 1971 (31.08.1971), SEE ENTIRE DOCUMENT.	1-14
A	US 3,426,573 A (WILSON, JR.) 11 FEBRUARY 1969 (11.02.1969), SEE ENTIRE DOCUMENT.	1-14
A	US 3,421,356 A (BUSKE) 14 JANUARY 1969 (14.01.1969), SEE ENTIRE DOCUMENT.	1-14
A	US 2,436,278 A (WILLETT) 17 FEBRUARY 1948 (19.02.1948), SEE ENTIRE DOCUMENT.	1-14

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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document member of the same patent family

Date of the actual completion of the international search

13 March 2003 (13.03.2003)

Date of mailing of the international search report

03 APR 2003

Name and mailing address of the ISA/US

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